



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: William C. Olson and Paul J. Maddon

Serial No.: 10/763,545 Examiner: L. Humphrey

Filed: January 23, 2004 Group Art Unit: 1648

For : SYNERGISTIC INHIBITION OF HIV-1 FUSION AND ATTACHMENT,

COMPOSITIONS AND ANTIBODIES THERETO.

1185 Avenue of the Americas New York, New York 10036

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TERMINAL DISCLAIMER

Progenics Pharmaceuticals, Inc. ("Progenics"), 777 Old Saw Mill River Road, Tarrytown, New York 10591, is the assignee of record of the entire right, title and interest in the above-identified application by virtue of an assignment from William C. Olson and Paul J. Maddon of U.S. Serial No. 09/464,902, of which U.S. Serial No. 09/594,983 is a continuation-in-part, of which the subject application is a continuation, which assignment was recorded in the U.S. Patent and Trademark Office on July 26, 2000 at Reel No. 011018, Frame 0082, and a copy of which is attached hereto as **Exhibit A**.

Progenics is also the assignee of record of the entire right, title and interest in U.S. Serial No. 10/371,483, now allowed, by virtue of an assignment from William C. Olson and Paul J. Maddon, which assignment was recorded in the U.S. Patent and Trademark Office on August 18, 2003 at Reel No. 014393, Frame 0471, and a copy of which is attached hereto as **Exhibit B**.

Progenics is also the assignee of record of the entire right, title and interest in U.S. Patent No. 7,060,273 by virtue of an assignment from William C. Olson and Paul J. Maddon of U.S. Serial No. 09/,828,615, now abandoned, of which U.S. Serial No. 10/116,797, now U.S. Patent No. 7,060,273, is a continuation, which assignment was recorded in the U.S. Patent and Trademark Office on July 27, 2001 at Reel No. 012029, Frame 0257, and a copy of which is attached hereto as **Exhibit C**.

Progenics hereby disclaims, except as provided below, the terminal portion of the statutory term of any patent granted on the subject application which would extend beyond either the expiration date of the full statutory term as defined in 35 U.S.C. §154 to §156 and §173 of any patent issued from allowed U.S. Serial No. 10/371,483, or the expiration date of the full statutory term as defined in 35 U.S.C. §154 to §156 and

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Applicants:

William C. Olson and Paul J. Maddon

Serial No.:

10/763,545

Filed: Page 2 January 23, 2004

§173 of U.S. Patent No. 7,060,273, whichever expiration date is earlier, and hereby agrees that any patent issued from the subject application shall be enforceable only for and during such period that the legal title to such patent shall be the same as the legal title to any patent issued from allowed U.S. Serial No. 10/371,483, and to U.S. Patent No. 7,060,273, this agreement to run with any patent granted on the subject application and to be binding upon the grantee, its successors and assigns.

In making the above disclaimer, Progenics does not disclaim the terminal part of any patent granted on the subject application that would extend to the above-identified earlier expiration date in the event that such patent having the earlier expiration date of the full statutory term as defined in 35 U.S.C. §154 to §156 and §173 expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 C.F.R. §1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term.

I have reviewed the assignments attached hereto and certify that to the best of my knowledge and belief, Progenics has the entire right, title and interest in each of the subject application, U.S. Serial No. 10/371,483, and U.S. Patent No. 7,060,273. I further certify that I am authorized to sign this Terminal Disclaimer on behalf of Progenics Pharmaceuticals, Inc.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 19-SEP-06

Progenics Pharmaceuticals, Inc.

By:

Paul J. Maddon, M.D., Ph.D.

Chief Executive Officer Progenics Pharmaceuticals, Inc.



UNITED STATES DEPARTMENT OF COMME Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20331

5796-5-1

OCTOBER 13, 2000

COOPER & DUNHAM LLP JOHN P. WHITE 1185 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10036

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,

RECORDATION DATE: 07/26/2000

REEL/FRAME: 011018/0082

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). ASSIGNOR:

OLSON, WILLIAM C.

DOC DATE: 04/24/2000

ASSIGNOR:

MADDON, PAUL J.

DOC DATE: 04/24/2000

ASSIGNEE:

PROGENICS PHARMACEUTICALS, INC. 777 OLD SAW MILL RIVER ROAD NEW YORK, NEW YORK 10591

SERIAL NUMBER: 09464902

PATENT NUMBER:

FILING DATE: 12/16/1999

ISSUE DATE:

ALLYSON PURNELL, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1595 (Substitute)			U.S. DEPARTMENT OF COMMERCE
(Rev. 8-96)	1 (400) (40) 4000 (40)		Patent and Trademark Office
To the Honorable Commissioner of Patents	1014	45375	iginal documents or copy thereof.
Name of conveying party(ies);			s of receiving party(ies):
William C. Olson Paul J. Maddon			es Pharmaceuticals, Inc.
Additional name(s) of conveying party(ies) attache Yes No	d?		7 Old Saw Mill River Road
3. Nature of Conveyance:			
Assignment Merge Security Agreement Chan Other	er ge of Name	City/State/Zip: New	York, New York 10591
Execution Date(s): 4/24/00; 4/24/00	 -	Additional name(s) &	address(es) attached? Yes No
Application number(s) or patent number(s): If t	his description is	haine filed to set to set	
A. Patent Application No.(s) 09/464, filed December 16, 1999		<u> </u>	n a new application, the execution date(s) of the
			7
Addition 5. Name and address of party to whom correspond	al numbers atta	ched? Yes [2	3 No
concerning document should be mailed:	ence	6. Total number of ap	oplications and patents involved:
Name: John P. White Internal Address: Cooper & Dunham LLP		7. Total fee (37 CFR §	\$3.41): \$ <u>40.00</u>
Street Address: 1185 Avenue of the A	mericas	☐ Enclosed	
· · ·		X Authorized	to be charged to deposit account
City/State/Zip: New York, New York 10	036	8. Deposit account nu	imber:
		03-3125	
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9. Statement and signature.			
To the best of my knowledge and belief, the original document.	foregoing inform	nation is true and correc	ct and any attached copy is a true copy of the
John P. White		a theat	July 24, 2000
Name of Person Signing	Signa	ture	Date
Reg. No. 28,678	<u> </u>	Total Number of names	including cover sheet, attachments and
I hereby certify that this correspondence is being de this date with the U.S. Postal Service with sufficient as first class mail in an envelope address Commissioner of Patents and Trademarks, Wasi D.C. 20231.	postage sed to: hington,	document: 3	
John P. White Da Reg. No. 28,678	te .		
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OMB No. 0651-0011 (exp. 4/94)			
Mail documents to	be recorded with	required cover sheet in	information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

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Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned,

William C. Olson residing at 21 Fawn Court, Ossining, New York 10562 and Paul J. Maddon residing at 191 Fox Meadow Road, Scarsdale, New York 10583

Hereby sell, assign and transfer to Progenics Pharmaceuticals, Inc.
a corporation of the State of

New York in the County of Westchester and State of New York 10591 its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on 4/24/00; 4/24/00 and is entitled

SYNERGISTIC INHIBITION OF HIV-1 FUSION AND ATTACHMENT, COMPOSITIONS AND ANTIBODIES THERETO (U.S. Serial No. 09/464,902, filed December 16, 1999, claiming priority of U.S. Provisional Application No. 60/112,532, filed December 16, 1998).

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

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Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Middletown, NY 1254T 105HD	BEST AVAILABLE	COPY
Scott A. Smith 15 Watkins Ace.		
witness: Sould South		`
Date: 1 1 1 2 4 20 00	Paul J. Maddon	
Middletown, NY - 7255/10340	Paul Macken	[L.S.]
15 Watkins Ave.	·	
Scott A Smith		
Witness: Scatt Smith		
Date: 124 2000	William C. Olson	•
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ASSIGNMENT

WILLIAM C. OLSON PAUL J. MADDON

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PROGENICS PHARMACEUTICALS, INC.

Application for Letters Patent of the United States for:

SYNERGISTIC INHIBITION OF HIV-1 FUSION AND ATTACHMENT, COMPOSITIONS AND ANTIBODIES THERETO

Attorney for John P. White

Cooper & Dunham LLP 1185 Avenue of the Americas New York, N.Y. 10036

212-278-0400



UNITED STATES PATENT AND TRADEMARK OFFICE

Under Decisions of Commerce for Interpolation Problems for do Observation in United States Patent and Tradems of Office

MARCH 08, 2004

COOPER & DUNHAM JOHN P. WHITE 1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036 PTAS

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RECORDATION DATE: 08/18/2003

REEL/FRAME: 014393/0471

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OLSON, WILLIAM C.

DOC DATE: 07/02/2003

ASSIGNOR:

MADDON, PAUL J.

DOC DATE: 06/30/2003

ASSIGNEE:

PROGENICS PHARMACEUTICALS, INC. 777 OLD SAW MILL RIVER ROAD TARRYTOWN, NEW YORK 10591

SERIAL NUMBER: 10371483

PATENT NUMBER:

FILING DATE: 02/21/2003

ISSUE DATE:

014393/0471 PAGE 2

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08-20-2003

RECORDATION FORM COVER SHEET U.S. Patient and Trademark Office U.S. Patient Address U.S. Patient No.(s)	7500	RDATION FORM LUVEN SHEET U.S. DEPARTMENT OF COMMERCE		
The Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): William C. Olson and Paul J. Maddon Internal Address: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) Name: Progenics Pharmaceuticals, Inc. Internal Address: Int	-Port 10 (2)	III'S Patent and Trademark Office		
To the Honorable Commissioner of Paterns and Triderranks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): William C. Olson and Paul J. Maddon Abbilional name(s) of conveying party(es) attached? \(\text{Q} \) Yes \(\text{Q} \) No 3. Nature of conveyance: \(\text{Q} \) Assignment \(\text{Q} \) Merger \(\text{Q} \) Security Agreement \(\text{Q} \) Change of Name \(\text{Q} \) Other Execution Date: \(\text{July 2, 2003; June 30, 2003} \) Additional name(s) & address(es) attached? \(\text{Q} \) Yes \(\text{Q} \) No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: \(A \) Patent Application No.(s) \(\text{10/37+2483} \) Filed 2-21-03 Additional numbers attached? \(\text{Q} \) Yes \(\text{Q} \) No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: \(\text{John P. White, Esq.} \) Internal Address: \(\text{Cooper 5. Dunham} \) Street Address: \(\text{1185 Avenue of the Americas} \) City. \(\text{New York State: NY Zip: 10036} \) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. \(\text{Mark A. Farley} \) Name of Person Signing Signature Date	OMB No. 0651-0027 (exp. 6/30/2005)	PATENTS ONLY		
1. Name of conveying party(ies): William C. Olson and Paul J. Maddon Additional name(s) of conveying party(es) attached? \(\) Yes \(\) Name: \(\) Progenics \(\) Pharmaceuticals, \(\) Inc. \(\) Internal Address: Additional name(s) of conveying party(es) attached? \(\) Yes \(\) No 3. Nature of conveyance: \(\) Assignment \(\) Merger \(\) Security Agreement \(\) Change of Name \(\) Other \(\) Other \(\) City. \(\) Tarrytown \(\) State: \(\) NY \(\) Zip: 10591 Additional name(s) & address(es) attached? \(\) Yes \(\) No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: \(\) 10/37+483 \(\) Filed 2-21-03 \(\) Additional numbers attached? \(\) Yes \(\) No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: \(\) John P. White, \(\) Esq. \(\) Internal Address: \(\) Coper \(\) Dunham \(\) Authorized to be charged to deposit account 8. Deposit account number: Street-Address: \(\) 1185 Avenue of the Americas \(\) Authorized to be charged to deposit account DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing \(\) Signature \(\) Date	Tab settings ⇔ ⇔ ▼ ▼	<u> </u>		
Name: Progenics Pharmaceuticals, Inc. Internal Address: Name: Progenics Pharmaceuticals, Inc. Internal Address: Internal	To the Honorable Commissioner of Pater	nts and Trademarks: Please record the attached original documents or copy thereof.		
Militional name(s) of conveying party(ies) attached? \(\) Yes \(\) No 3. Nature of conveyance: \(\) Assignment \(\) Merger \(\) Merger \(\) Change of Name \(\) City: \(\) Tarrytown \(\) State: \(\) NY \(\) Zip: \(\) 10591 Execution Date: \(\) July \(2 \) 2003; \(\) June \(30 \), 2003 \(\) Additional name(s) & address(es) attached? \(\) Yes \(\) No 4. Application number(s) or patent number(s): \(\) If this document is being filed together with a new application, the execution date of the application is: \(\) A Patent Application No.(s) \(\) \(\) \(\) 10/37; 483 \(\) \(\) Filed \(2-21-03 \) Additional numbers attached? \(\) Yes \(\) No 5. Name and address of party to whom correspondence concerning document should be mailed: \(\) Name: \(\) John P. \(\) White, \(\) Esq. \(\) Internal Address: \(\) Cooper \(\) Dunham \(\)	1. Name of conveying party(ies):			
Paul J. Maddon Abbillional name(s) of conveying partyles) attached? Yes Yes No 3. Nature of conveyance: Yes Assignment No Merger	William C. Olson and	Name: Progenics Pharmaceuticals, Inc.		
Name and address of party to whom correspondence concerning document should be mailed: Name: John P. White, Esq. Internal Address: Cooper & Dunham Street-Address: 1185 Avenue of the Americas City: New York State: NY Zip: 10036 City: Tarrytown State: NY Zip: 10036 Street Address: 277 Old Saw Mill River Road City: Tarrytown State: NY Zip: 10591 Additional name(s) & address(es) attached? □ Yes □ No Additional name(s) & address(es) attached? □ Yes □ No A patent Application No.(s) 10/371: 483 Filed 2-21-03 Additional numbers attached? □ Yes □ No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: John P. White, Esq. Internal Address: Cooper & Dunham City: New York State: NY Zip: 10036 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Street Address: 277 Old Saw Mill River Street Address: 777 Old Saw Mill River Road City: Tarrytown State: NY Zip: 10591 Additional numbers stateched? □ Yes □ No Additional name(s) & address(es) attached? □ Yes □ No B. Patent No.(s) 6. Total number of applications and patents involved: □ 1. Attach duplicate copy of this page if paying by deposit account) City: New York State: NY Zip: 10036 City: Tarrytown State: NY Zip: 10036 City: Tarrytown State: NY Zip: 10591 Additional name(s) & address(es) attached? □ Yes □ No City: Tarrytown State: NY Zip: 10591 Additional name(s) & address(es) attached? □ Yes □ No B. Deposit account number: City: New York State: NY Zip: 10036 City: Tarrytown State: NY Zip: 10036 City: Tarrytown State: NY Zip: 10591 Additional name(s) & address(es) attached? □ Yes □ No City: Tarrytow	Paul J. Maddon	Internal Address:		
Street Address: 777 Old Saw Mill River Security Agreement	Additional name(s) of conveying party(ies) attache	d? □ Yes ဩ No ——————————————————————————————————		
Street Address: 777 01d Saw M111 River Security Agreement	3. Nature of conveyance:	÷ 2		
City: Tarrytown State: NY Zip: 10591 Execution Date: July 2, 2003; June 10, 2003 Additional name(s) & address(es) attached? I ves I No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/37 +; 483 filed 2-21-03 Additional numbers attached? I ves I No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: John P. White, Esq. Internal Address: Cooper & Dunham Internal Address: Cooper & Dunham Street-Address: 1185 Avenue of the Americas City: New York State: NY Zip: 10036 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Radditional name(s) & address(es) attached? I ves I Ny Zip: 10591 Additional name(s) & address(es) attached? I ves I Ny No I No Additional name(s) & address(es) attached? I ves I Ny No B. Patent No.(s) 6. Total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents involved: I i total number of applications and patents in	X்j Assignment ဩ Me	erger - Company of the company of th		
City: Tarrytown State: NY Zip: 10591 Execution Date: July 2, 2003; June 30, 2003 Additional name(s) & address(es) attached?	☐: Security Agreement ☐: Ch	Street Address: 777 Old Saw Mill River		
City: Tarrytown State: NY Zip: 10591 Additional name(s) & address(es) attached?		Road		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/371;483 filed 2-21-03 Additional numbers attached?	<u> </u>	1		
If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/37 +; 483 filed 2-21-03 Additional numbers attached?	Execution Date: July 2, 2003; J	une_30,_2003 Additional name(s) & address(es) attached? 🗀 Yes 🔼 No		
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Additional numbers attached? \(\textstyle{\	If this document is being filed together	with a new application, the execution date of the application is:		
Additional numbers attached? Yes All No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: John P. White, Esq. Internal Address: Cooper & Dunham Internal Address: Cooper & Dunham Street-Address: 1185 Avenue of the Americas City: New York State: NY Zip: 10036 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Additional numbers attached? Ny Yes Additional number: 6. Total number of applications and patents involved: 1; 7. Total fee (37 CFR 3.41)	A. Patent Application No.(s)	B. Patent No.(s)		
Additional numbers attached? No 5. Name and address of party to whom correspondence concerning document should be mailed: Name:John P. White, Esq.				
5. Name and address of party to whom correspondence concerning document should be mailed: Name:John P. White, Esq	filed 2-21-03	udditional numbers attached?		
Name:John P. White, Esq	5. Name and address of party to whom o	correspondence 6. Total number of applications and patents involved:		
Internal Address: Cooper & Dunham Authorized to be charged to deposit account 8. Deposit account number: Street-Address: 1185 Avenue of the Americas City: New York State: NY Zip: 10036 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Date		7 T-4-1 (/37 CEB 3 41) \$ 40.00		
Authorized to be charged to deposit account 8. Deposit account number: Street-Address: 1185 Avenue of the Americas 03-3125 City: New York State: NY Zip: 10036 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Date		The Enclosed		
Street-Address: 1185 Avenue of the Americas 03–3125 City: New York State: NY Zip: 10036 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Date	Internal Address: <u>Cooper & Dunha</u>	<u>m</u>		
Street-Address: 1185 Avenue of the Americas 03–3125 City: New York State: NY Zip: 10036 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Date				
Americas City: New York State: NY Zip: 10036 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Name of Person Signing Name of Signature Odd Color				
City: New York State: NY Zip: 10036 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Name State: NY Zip: 10036 (Attach duplicate copy of this page if paying by deposit account) (Attach duplicate copy of this page if paying by deposit account) (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. For the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Signature Signature Date	—Street-Address: 1185 Avenue of	the		
City: New York State: NY Zip: 10036 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Do NOT USE THIS SPACE 9. Statement and signature. For the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Signature Date	Americas	03-3125		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature Signature Date	City: New York State: NY 2	ip: 10036 (Attach duplicate copy of this page if paying by deposit account)		
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Mark A. Farley Name of Person Signing Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Signature Date	DO NOT USE THIS SPACE			
is a true copy of the original document. Mark A. Farley Name of Person Signing Signature F-13-03 Date	9. Statement and signature.			
Mark A. Farley Name of Person Signing Oh (ote F-13-03 Date Da				
Name of Person Signing Signature Date		1 Joh C. Faley 6-172-07		

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

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10591



In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned, William C. Olson, residing at 21 Fawn Court, Ossining, New York, 10562, U.S.A.; and Paul J. Maddon, residing at 191 FOx Meadow Road, Scarsdale, New York, 10583, U.S.A.

Hereby sell, assign and transfer to Progenics Pharmaceuticals, Inc. a corporation of the State of

having a place of business at 777 Old Saw Mill River Road, Tarrytown, N. Delaware and State of New York in the County of Westchester its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on and is entitled

ANTI-CCR5 ANTIBODY

(U.S. Serial No. 10/371,483, filed February 21, 2003 claims the benefit of U.S. Provisional Application No. 60/358,886, filed February 22, 2002).

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions:

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

BEST AVAILABLE COPY

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aboresaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, ils successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: Toly 2, 2003 Witness: Mill Disperse [signature] ELIZABETT MANECCHI [printed name] 50 BELEVIEW AVE [address]	William C. Olson	[L.S.]
Date: 2003 Witness: Like 1 2003 [signature]	Paul J. Maddon	[L.S.]

GERRAGETH MANGEL 14. [printed name]

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WILLIAM C. OLSON
PAUL J. MADDON

TO

TO

Application for Letters Patent
of the United States for:
ANTI-CCR5 ANTIBODY

Attorney for John P. White

Cooper & Dunham LLP

New York, N.Y. 19936

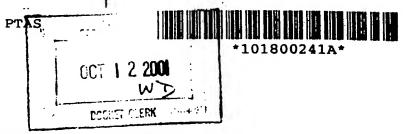
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OCTOBER 04, 2001

COOPER & DUNHAM LLP JOHN P. WHITE 1185 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10036



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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE. ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/27/2001

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NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OLSON, WILLIAM C.

DOC DATE: 04/24/2001

ASSIGNOR:

MADDON, PAUL J.

DOC DATE: 04/24/2001

ASSIGNEE:

PROGENICS PHARMACEUTICALS, INC. 777 OLD SAW MILL RIVER ROAD TARRYTOWN, NEW YORK 10591

SERIAL NUMBER: 09828615

PATENT NUMBER:

FILING DATE: 04/06/2001

ISSUE DATE:

STEVEN POST, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS 08-06-2001

U.S. DEPARTMENT OF COMMERCE

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(Rev. 8-96)	Patent and Trademark Office
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1. Name of conveying party(iss): William C. Olson Paul J. Maddon	Name: Progenics Pharmaceuticals. Inc.
Additional name(s) of conveying party(les) additional name(s) additional name(s) of conveying party(les) additional name(s) of conveying party(les) additional name(s) of conveying party(les) additional name(s) addition	Street Address: 7.7.7 Old Saw Mill River Road
3. Nature of Conveyance:	\$
	Chysusezim Tarrytown New York 10391
Assignment Merger	
Security Agreement	
4/24/01; 4/24/01 Execution Data(s):	JUL 2 7 2001 Additional name(s) & address(es) attached? □ year 12 No
4. Application number(s) or patent number(s): If this documer	is being filed together with a new application, the execution date(s) of the
A Patent Application No.(s) 09/828,615 filed April 6, 2001	B. Patent No.(s)
Additional numbers	attached? Yes X No
 Name and address of party to whom correspondence concerning document should be mailed; 	6. Total number of applications and patents involved:
Name: John P. White	7. Total fee (37 CFR §3.41):
Internal Address: Cooper & Durtham LLP	7. 1000 100 (37 CFR \$3.41):
Street Address: 1185 Avenue of the Americas	☐ Enclosed
Subset Address.	Authorized to be charged to deposit account
City/State/Zip: New York New York 10036	
	8. Deposit account number:
	03-3125
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original document.	normation is true and correct and any automoti copy is a true copy of the
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	July 24, 2001 Consture Date
	Total Number of pages including cover sheet, attachments and
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John P. White Reg. No. 28,678 Date	
Speacer Schneider Reg. No. 45,923	
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FORM PTO-1595 (Substitute)

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Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned, William C. Olson residing at 21 Fawn Court, Ossining, New York 10562 and Paul J. Maddon residing at 191 Fox Meadow Road, Scarsdale, New York 10583

Hereby sell, assign and transfer to Progenics Pharmaceuticals, Inc.
a corporation of the State of

Delaware having a place of business at 777 Old Saw Mill River Road
Tarrytovn in the County of Westchester and State of New York 10591, U.S.A.

its successors, assigns and legal representatives, the entire right, title and interest
for all countries, in and to any and all inventions which are disclosed and claimed,
and any and all inventions which are disclosed but not claimed, in the application for
United States Patent, which has been executed by the undersigned on April 24, 2001;
April 24, 2001
and is entitled

METHODS FOR INHIBITING HIV-1 INFECTION (U.S. Serial No. 09/828,615 , filed April 6, 2001)

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Palent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reisue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, ils successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Coverant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

	[L.S.]
Dale: (1 pril 24 200) William C. Olson	
wilness: + Oi Canio	
Jessica Dicanio	
44 corras Drive	
Jarrytown NY 10591 Davel Maddon	(L.S.]
Dale: PRILAY 2001 Paul J. Naddon	•
Wilness: BETM MANOCCHI	
50 BELLEVIEW AVE	
035/N/Ng, NY 10562	